PATENT ABSTRACTS OF JAPAN

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(57) Abstract

PURPOSE: To manufacture a 2/4 shift type diffraction grating by using material easy to be worked and without necessiteting nonreflection coating, by forming step-differences on the surface of a mirror, which is turned into a reflection type phase shift plate.

CONSTITUTION. The step-difference of a phase shift pales is is about 800,4 in high and about 300,4 in high and a surface in the work of the rear has no influence, and it is sufficient to work the single side only an a first state. Nonreflection coating necessary for a larransian type phase shift plate is also unnecessary. One of the laser theams 1 for exposure, which is divided into two portions by a half-mirror 2, is reflected by a mirror 3 and reaches resist 7. The other one of the beams in criticated by the phases shift plate 8, penetrates a collection ism's 5, reaches the resist 7, interfers with a botter entering thom the opposities side, and openations.

interference lninges on the resist 7. COPYRIGHT: (C)1991, JPO& Japio



